

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 8/13/04

Signature:

(David J. Powsner)

Docket No.: 102320-0037
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Richard D. Thornton et al.

Application No.: 10/676,726

Confirmation No.: 2945

Filed: October 1, 2003

Art Unit: 2834

For: SUSPENDING, GUIDING AND
PROPELLING VEHICLES USING
MAGNETIC FORCES

Examiner: B. S. Mullins

08/17/2004 LWONDIM1 00000016 10676726

01 FC:1806

180.00 DP

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the publications listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each publication on the PTO/SB/08 is attached.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this

Application No.: 10/676,726

Docket No.: 102320-0037

application by this firm) to our Deposit Account No. 141449, under Order No. 102320-0037. A duplicate copy of this paper is enclosed.

Dated: 8/13/04

~~Respectfully submitted,~~

By 

David J. Powsner

Registration No.: 31,868

NUTTER MCCLENNEN & FISH LLP

World Trade Center West

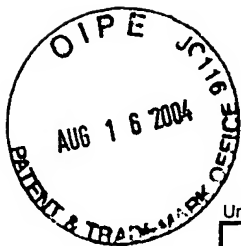
155 Seaport Boulevard

Boston, Massachusetts 02210-2604

(617) 439-2000

(617) 310-9000 (Fax)

Attorney for Applicant



PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/676,726-Conf. #2945	
	Filing Date	October 1, 2003	
	First Named Inventor	Richard D. Thornton	
	Art Unit	2834	
	Examiner Name	B. S. Mullins	
Total Number of Pages in This Submission	16	Attorney Docket Number	102320-0037

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard (in duplicate) Copies of 13 publications as listed on 1449
Remarks		

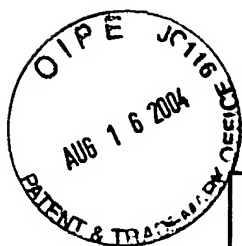
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	NUTTER MCCLENNEN & FISH LLP David J. Powsner - 31,868
Signature	
Date	8/13/04

Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 8/13/04 Signature: (David J. Powsner)



PTO/SB/17 (10-03)

Approved for use through 7/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00

Complete if Known

Application Number 10/676,726-Conf. #2945

Filing Date October 1, 2003

First Named Inventor Richard D. Thornton

Examiner Name B. S. Mullins

Art Unit 2834

Attorney Docket No. 102320-0037

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

Deposit Account:

Deposit Account Number 141449

Deposit Account Name Nutter McClennen & Fish LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00

FEE CALCULATION**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$ 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims		Extra Claims	Fee from below	Fee Paid
Independent Claims	** =		x	
Multiple Dependent	** =		x	

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$ 0.00

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

(Complete if applicable)

Name (Print/Type) David J. Powsner

Registration No. (Attorney/Agent)

31,868

Telephone (617) 439-2000

Signature

Date

Fee Transmittal

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1456, Alexandria, VA 22313-1450, on the date shown below.

Dated: 8/13/04

Signature:

(David J. Powsner)



Application No. (if known): 10/676,726

Attorney Docket No.: 102320-0037

Certificate of Mailing Under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on 8/13/04
Date

Signature

David J. Powsner

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

IDS (Citation) by Applicant (11 pages)

Form PTO-1430

(Rev. 8-83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE *
	3 0 2 9 8 9 3	4/17/62	Mountjoy			
	3 4 4 0 6 0 0	4/22/69	Frech et al.			
	3 5 3 2 9 3 4	10/6/70	Ballman			
	3 6 0 9 6 7 6	9/28/71	Jauquet et al.	340	23	
	3 6 1 7 8 9 0	11/2/71	Kurauchi et al.	325	51	
	3 6 2 8 4 6 2	12/21/71	Holt	104	105	
	3 6 3 6 5 0 8	1/18/72	Ogilvy et al.	340	47	
	3 6 7 9 8 7 4	7/25/72	Fickenscher	235	61.7	
	3 7 6 8 4 1 7	10/30/73	Thornton et al.			
	3 7 7 2 6 4 0	11/13/73	Auer, Jr. et al.	340	23	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
WO 95/21405	8/10/95	PCT			
0 229 669	7/22/87	EP			
0 482 424 B1	1/10/96	EP			
235 786 A3	5/21/86	DE			x

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Eghtesadi, M. "Inductive Power Transfer to an Electric Vehicle-Analytical Model," 40 th IEEE Vehicular Technology Conference (May 6-9, 1990) Orlando, FL, pp. 100-104.
	Stevens, Bruce W. "Asynchronous Bidirectional Network Interface Enabling Seamless Concurrent Processing in a Distributed Heterogeneous Multiprocessor System," Serial No. 783,661, Filing Date 28 October 1991, Office of the Chief of Naval Research.
	Hughes, Austin. Electric Motors and Drives (Newnes: Oxford, 1990), Table of Contents (pp. v-xiii), Chapter 9 "Synchronous, Switched Reluctance and Brushless D.C. Drives," (pp. 293-315).
Examiner	Date Considered:
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		3	7	8	6	4	1	1	1/15/74	Kurauchi et al.	340	23	
		3	8	4	5	7	2	0	11/5/74	Bohn et al.	104	148	
		3	8	5	8	5	2	1	1/7/75	Atherton	104	148	
		3	8	7	4	2	9	9	4/1/75	Silva et al.	104	130	
		3	9	0	6	4	3	6	9/16/75	Kurauchi et al.	340	23	
		3	9	2	7	7	3	5	12/23/75	Miericke et al.	104	148	
		3	9	7	9	0	9	1	9/7/76	Gagnon et al.	246	8	
		4	0	2	3	7	5	3	5/17/77	Dobler	246	5	
		4	0	6	1	0	8	9	12/6/77	Sawyer	104	23	
		4	0	6	5	7	0	6	12/27/77	Gosling et al.	318	254	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
							YES	NO
		195 35 856 A1	3/20/97	DE				x
		8-129336	5/21/96	JP				x
		91-4927	3/29/91	KR				x
		1140212 A	2/15/85	SU				x

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	Basak, Amitava. <u>Permanent-Magnet DC Linear Motors</u> (Clarendon Press: Oxford, 1996), Table of Contents (pp. ix-xi), Chapter 2 "Types of DC Linear Motor" (pp. 21-41) and Chapter 5 "Supports and Guidance" (pp. 90-104).
	Gieras, Jacek F. et al. <u>Linear Synchronous Motors: Transportation and Automation Systems</u> (CRC Press: New York, 2000), Table of Contents, Chapter 6 "High Speed Maglev Transport" (pp. 177-215).
Examiner	Date Considered:
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		4	1	2	3	1	7	5		1/2/79	Miller et al.	104	130	
		4	2	9	2	4	6	5		9/29/81	Wilson et al.	178	3	
		4	3	6	1	2	0	2		11/30/82	Minovitch	180	168	
		4	4	4	1	6	0	4		4/10/84	Schlig et al.	198	598	
		4	5	2	2	1	2	8		6/11/85	Anderson	104	130	
		4	6	6	5	8	2	9		5/19/87	Anderson	104	124	
		4	6	6	5	8	3	0		5/19/87	Anderson et al.	104	124	
		4	6	7	1	1	8	5		6/9/87	Anderson et al.	104	130	
		4	7	2	6	2	9	9		2/23/88	Anderson	104	88	
		4	7	7	6	4	6	4		10/11/88	Miller et al.	209	3.3	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
														YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		4	7	9	4	8	6	5	1/3/89	Lindberg	104	246	
		4	8	0	0	3	2	8	1/24/89	Bolger et al.	320	2	
		4	8	2	6	3	4	4	6/6/89	Bolger	191	10	
		4	9	1	4	5	3	9	4/3/90	Turner et al.	361	18	
		5	0	3	2	7	4	6	7/16/91	Ueda et al.	310	12	
		5	1	0	8	0	5	2	4/28/92	Malewicki et al.	246	5	
		5	1	2	6	6	0	6	6/30/92	Hofmann	310	49	
		5	2	1	4	3	2	3	5/25/93	Ueda et al.	310	12	
		5	2	1	4	9	8	1	6/1/93	Weinberger et al.	74	573	
		5	2	4	2	1	3	6	9/7/93	Cribbens et al.	246	34	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	2	5	1	5	6	3	10/12/93	Staehs et al.	104	168	
		5	2	6	3	6	7	0	11/23/93	Colbaugh et al.	246	63	
		5	2	6	7	5	1	4	12/7/93	Staehs et al.	104	246	
		5	2	7	7	1	2	4	1/11/94	DiFonso et al.	104	130	
		5	2	7	7	1	2	5	1/11/94	DiFonso et al.	104	292	
		5	2	9	3	3	0	8	3/8/94	Boys et al.	363	37	
		5	3	2	5	9	7	4	7/5/94	Staehs	211	60.1	
		5	4	0	9	0	9	5	4/25/95	Hoshi et al.	198	372	
		5	4	3	5	4	2	9	7/25/95	Van Den Goor	189	890.1	
		5	4	4	4	3	4	1	8/22/95	Kneifel, II et al.	318	432	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	4	5	0	3	0	5	9/12/95	Boys et al.	363	24	
		5	4	5	2	6	6	3	9/26/95	Berdut	104	283	
		5	4	6	7	7	1	8	11/21/95	Shibata et al.	104	284	
		5	5	1	7	9	2	4	5/21/96	He et al.	104	286	
		5	5	1	9	2	6	6	5/21/96	Chitayat	310	12	
		5	5	2	1	4	5	1	5/28/96	Oudet et al.	310	266	
		5	5	2	3	6	3	7	6/4/96	Miller	310	156	
		5	5	2	8	1	1	3	6/18/96	Boys et al.	318	16	
		5	5	5	1	3	5	0	9/3/96	Yamada et al.	104	293	
		5	5	7	3	0	9	0	11/12/96	Ross	191	10	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	5	9	0	6	0	4	1/7/97	Lund	104	88.04	
		5	5	9	0	9	9	5	1/7/97	Berkers et al.	414	357	
		5	5	9	2	1	5	8	1/7/97	Riffaud	340	941	
		5	5	9	5	1	2	1	1/21/97	Elliott et al.	104	53	
		5	6	1	9	0	7	8	4/8/97	Boys et al.	307	85	
		5	7	0	9	2	9	1	1/20/98	Nishino et al.	191	10	
		5	7	2	0	4	5	4	2/24/98	Bachetti et al.	246	34	
		5	7	2	3	9	1	7	3/3/98	Chitayat	310	12	
		5	7	5	7	1	0	0	5/26/98	Burgbacher	310	186	
		5	8	2	1	6	3	8	10/13/98	Boys et al.	307	104	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	8	3	9	5	5	4	11/24/98	Clark	191	10	
		5	8	9	8	5	7	9	4/27/99	Boys et al.	363	23	
		5	9	2	7	6	5	7	7/27/99	Takasan et al.	246	194	
		5	9	5	2	7	4	3	9/14/99	Sidey	310	12	
		5	9	9	0	5	9	2	11/23/99	Miura et al.	310	156	
		6	0	0	5	5	1	1	12/21/99	Young et al.	342	70	
		6	0	0	8	5	5	2	12/28/99	Yagoto et al.	310	12	
		6	0	1	1	5	0	8	1/4/00	Perreault et al.	342	350	
		6	0	3	4	4	9	9	3/7/00	Tranovich	318	650	
		6	0	8	1	0	5	8	6/27/00	Suzuki et al.	310	156	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		6	0	8	9	5	1	2	7/18/00	Ansorge et al.	246	194	
		6	1	0	1	9	5	2	8/15/00	Thornton et al.	104	282	
		6	2	2	5	9	1	9	5/1/01	Lumbis et al.	340	933	
		6	4	9	9	7	0	1	12/31/02	Thornton et al.	246	194	
		5	9	0	6	6	4	7	5/25/99	Zyburt et al	701	24	
		6	0	6	4	3	0	1	5/16/00	Takahashi et al.	340	435	
		6	1	0	0	8	2	1	8/8/00	Tanji et al.	340	988	
		6	1	3	7	4	2	4	10/24/00	Cohen et al.	340	933	
		4	8	3	6	3	4	4	6/6/89	Bolger			
		4	0	3	2	1	7	5	1/2/79	Miller et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO:
0102320-00037

APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.

FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	9	0	0	7	2	8		5/4/1999	Moser et al.	324	244	
		6	0	3	2	1	1	0		2/29/2000	Ishihara et al.	702	150	
		5	1	5	2	2	2	7		10/6/92	Kato	104	286	
		5	1	6	1	7	5	8		11/10/92	Shuto	246	419	
		5	1	7	8	0	3	7		1/12/93	Mihirogi	74	569	
		5	1	8	0	0	4	1		1/19/93	Shuto	191	53	
		5	1	9	3	7	6	7		3/16/93	Mihirogi	246	418	
		5	1	9	9	6	7	4		4/6/93	Mihirogi	246	434	
		5	2	4	7	8	9	0		9/28/93	Mihirogi	104	130	
		5	7	0	8	4	2	7		1/13/98	Bush	340	941	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
														YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

1181914_1.DOC

Form PTO-1449
(Rev. 8-83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO:
0102320-00037

APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.

FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
		5	7	5	7	2	8	8	5/26/98	Dixon et al.	340	941	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
													YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered:
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.